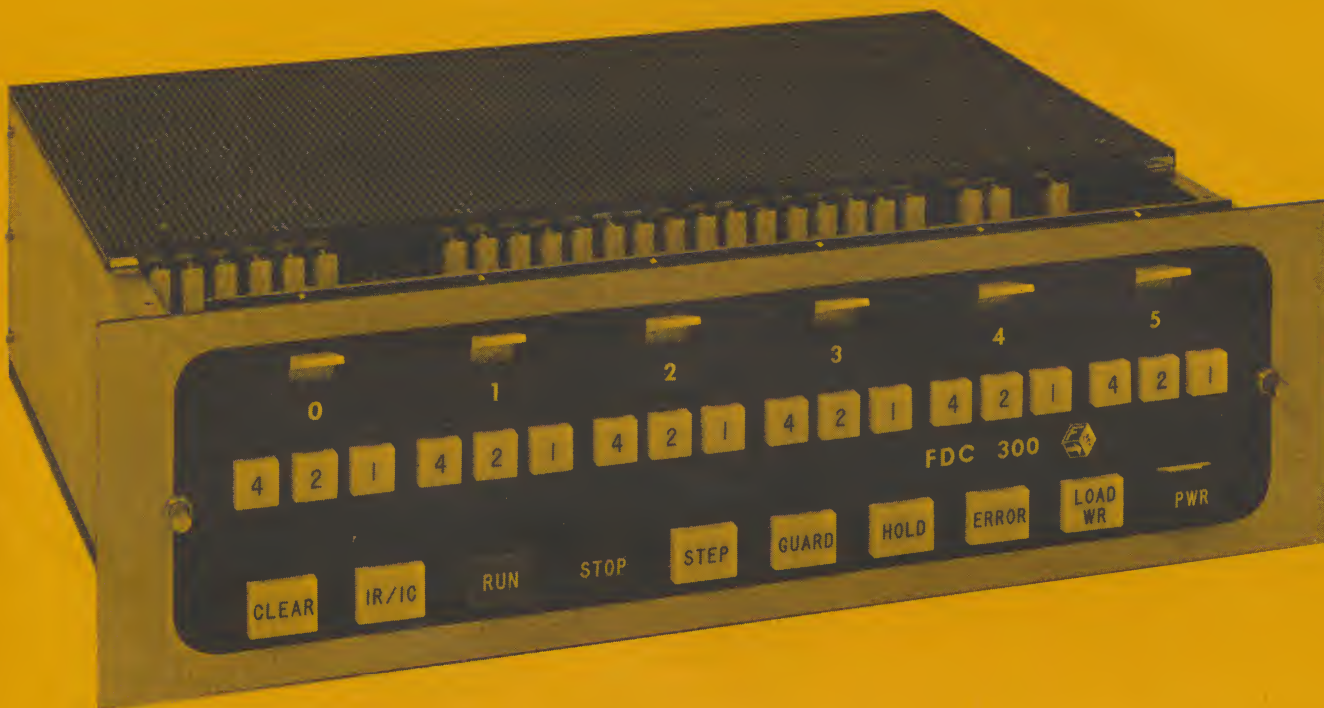




Ferroxcube

introduces the unique new Series FDC-300

the UN-COMPUTER

PROGRAMMABLE DIGITAL DATA CONTROLLER

for: PROCESS CONTROL • DATA ACQUISITION • DATA REDUCTION
DATA MANIPULATION • BUSINESS SYSTEMS • SCIENTIFIC INSTRUMENTATION
DATA-LINK INTERFACING • DIAGNOSTIC TESTING • DATA RETRIEVAL & EDITING

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The Series FDC-300 is the most flexible, least committed, most economical programmable digital control system ever produced. It is a far better choice for many applications than mini-computers costing from 2-5 times as much! The UN-COMPUTER is more efficient, far more convenient, and much more versatile — because it is designed specifically to provide low-cost, highly reliable, high-speed, data manipulation, in a completely modular system. This modularity provides for every control function that could possibly be required — without waste or compromise!

Check the block diagram — inside this bulletin — for proof of the UN-COMPUTER's remarkable versatility. Every block on that diagram is an independent option!

The Series FDC-300 Programmable Digital Data Controllers were designed to fill a great need — a need that is *not* satisfied by minicomputers, unless one is willing to tolerate excessive cost and inconvenience. Indeed, in well over 50% of the applications now using small computers, data is not *processed* (i.e., arithmetically computed) but is *manipulated*. But the organization of a computer places heavy emphasis on the Central Processor, greatly increasing not only the cost of the equipment, but also the cost and complexity of I/O interfacing. Thus, in this large number of applications, the minicomputer is a tragic *misfit* — offering, paradoxically, too much expensive high-speed arithmetic capability, and too little interface accommodation. Now, however, these applications can be furnished with the “perfect fit” — the low-cost, modular UN-COMPUTER from Ferroxcube.

Never before has the data-system designer been offered such complete and unrestricted freedom of choice. He may select from an enormous variety of peripheral I/O facilities and a wide range of field-expandable capacities. And in every one of hundreds of standard configurations, **he buys only what he needs**. Software requirements are minimal, further reducing system cost and design burden.

Now the OEM system design can begin with a basic, behind-the-panel card-cage controller assembly, only 5¼" × 19" × 13½" (the FDC-302), and add exactly the facilities he needs. . . at costs that put his system in a consistently competitive position. No longer need his design be dominated by the inflated economics of a complete general-purpose computer, plus expensive “bundled” add-ons, overcommitted software, compilers, and the unnecessary complexity that degrades system reliability. With the UN-COMPUTER, the *system design* determines the shape and cost of the data manipulation hardware.

Complete Interface Engineering support for users of the UN-COMPUTER is provided by an experienced and creative engineering staff. The few standard software routines required for most applications

have already been developed and field-proven, and are furnished as standard, with the FDC-302. Special software, if required, is available from many sources, and is easily developed in-house. And there is even software for performing moderate-speed arithmetic operations should they be necessary!

Every control and data-manipulation function now being performed by small computers is available (at lower cost, and with higher reliability) from standard FDC-300-Series modules. Teletype, printer, and data-link interfaces . . . CRT graphic and display terminals . . . A/D and D/A converters . . . paper tape and card readers . . . multiplexers for data-channel scanning . . . power-line controllers and sensors . . . magnetic tape interfaces, etc., etc. And memory capacity is expandable (now or later, in the field) from the basic 4K × 18 to as much as 32K × 18!

CALL TODAY

for immediate information and quotations.

(Ferroxcube offices are listed on the back

of this bulletin.) For complete technical data on the FDC-300 Series, use this postage-paid card to order your **FREE UN-COMPUTER DESIGN KIT!**



Gentlemen:

I have read about your “UN-COMPUTER,” and I *want* to believe! Send me:

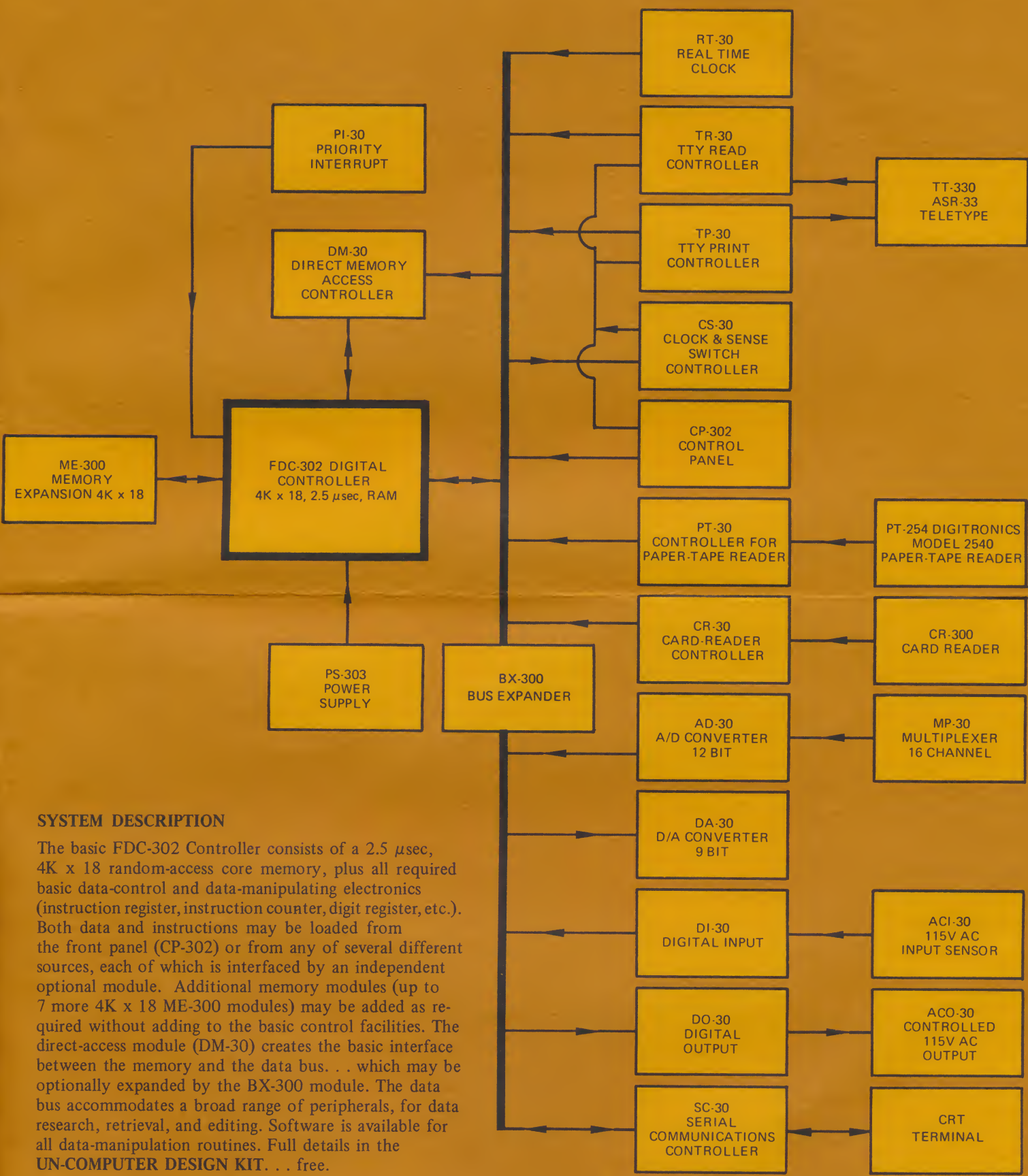
- ☐ The complete UN-COMPUTER DESIGN KIT, free.
- ☐ One of your fast-talking field engineers, to discuss a possible application. (Have him phone for an appointment.)
- ☐ A preliminary technical proposal and quotation on a system made up of the following blocks (use nomenclature from block diagram):

NAME _____ TITLE _____

COMPANY _____ DEPT. _____

ADDRESS _____

CITY, STATE _____ ZIP _____



SYSTEM DESCRIPTION

The basic FDC-302 Controller consists of a 2.5 μ sec, 4K x 18 random-access core memory, plus all required basic data-control and data-manipulating electronics (instruction register, instruction counter, digit register, etc.). Both data and instructions may be loaded from the front panel (CP-302) or from any of several different sources, each of which is interfaced by an independent optional module. Additional memory modules (up to 7 more 4K x 18 ME-300 modules) may be added as required without adding to the basic control facilities. The direct-access module (DM-30) creates the basic interface between the memory and the data bus. . . which may be optionally expanded by the BX-300 module. The data bus accommodates a broad range of peripherals, for data research, retrieval, and editing. Software is available for all data-manipulation routines. Full details in the UN-COMPUTER DESIGN KIT. . . free.

*twice as flexible as a mini computer
at less than half the cost*

Introducing the UN-COMPUTER



FERROXCUBE
Memory Products Division
Saugerties, New York 12477

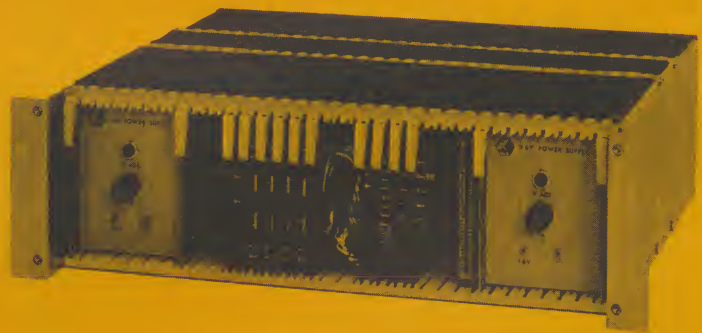
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Ferroxcube Memory Systems and Components span the digital domain from Minibit to Megabit, from rack-mounting systems with field-expandable data storage to compact card sets for convenient incorporation in mini-computer and business machine assemblies. Modular, pluggable construction allows free selections and combinations of speed, capacity, access, and operating modes.



Call today!

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